## **CLAIMS:**

Please amend the claims as follows.

1. (Original) A computer system comprising:

a plurality of shelves, each shelf having a carrier for removably receiving a plurality of information processing modules and a switching module, and an interconnection member for providing connections between the information processing modules and the switching module;

wherein the shelves are logically connected into a plurality of stacks, the switching modules of the respective shelves in each stack being interconnected in a logical stacking configuration;

the computer system further comprising a shelf having a carrier for removably receiving a master switching module, wherein the master switching module is connected into each stack as a common master switch for all of the stacks.

- 2. (Original) The computer system of claim 1, wherein the logical stacking configuration is a closed loop stacking configuration.
- 3. (Currently amended) The computer system of claim 1, wherein each switching module other than the master switching module is operable as a slave switching module responsive to the masters witching switching module.
- 4. (Original) The computer system of claim 3, wherein the interconnected switching modules and master switching module are operable as a single distributed switch.
- 5. (Original) The computer system of claim 1, wherein the master switching module provides a single ingress/egress point for data transfer to/from the computer system.

- 6. (Original) The computer system of claim 1, wherein the information processing modules of each shelf are located at a first side of the interconnections member and the switching module is located at the second side of the interconnections member and wherein a power supply module for providing power to the modules is removably received in the shelf located at the second side of the interconnections member.
- 7. (Original) The computer system of claim 1, wherein the shelf of the master switching module has no information processing modules and has a power supply module for providing power to the master switching.
- 8. (Original) The computer system of claim 7, wherein the master switching module is located at a first side of the interconnections member and the power supply module is located at a second side of the interconnections member.
- 9. (Original) The computer system of claim 1, wherein each shelf has a service processing module removably received therein for providing shelf level service functions to the modules of the shelf.
- 10. (Original) The computer system of claim 9, wherein the switching module comprises the service processing module for each shelf.
- 11. (Original) The computer system of claim 9, wherein the master switching module comprises the service processing module for its shelf.
- 12. (Original) The computer system of claim 1, wherein each shelf comprises two switching modules removably received therein.
- 13. (Original) The computer system of claim 11, wherein both switching modules of each shelf are connected into a common logical stacking arrangement.

- 14. (Original) The computer system of claim 12, wherein each switching module of each shelf is connected into a different logical stacking arrangement to the other switching module of that shelf.
- 15. (Original) The computer system of claim 14, wherein each shelf is connected into two logical stacking arrangements, each switching module of the shelf being connected into a different one of the logical stacking arrangements, and wherein the each logical stacking arrangements provides equivalent connectivity between the shelves as the other logical stacking arrangement.
- 16. (Original) The computer system of claim 12, wherein each switching module of a given shelf is operable to replicate the functionality of the other switching module of that shelf.
- 17. (Original) The computer system of claim 12, wherein one switching module of each shelf is operable as a shelf level master switching module and wherein the other switching module of that shelf is operable as a shelf level slave switching module.
- 18. (Original) The computer system of claim 12, wherein each switching module of a given shelf is interconnected with the other switching module of that shelf.
- 19. (Original) The computer system of claim 18, wherein the inter-switching module interconnection is made through the interconnections member of the shelf.
- 20. (Original) The computer system of claim 12, wherein the shelf having the master switching module has a second master switching module.
- 21. (Original) The computer system of claim 20, as dependent from at least claim 14, wherein each master switching module is connected into a separate one of the logical stacking arrangements.

- 22. (Original) The computer system of claim 20, wherein each master switching module is interconnected with the other master switching module.
- 23. (Original) The computer system of claim 22, wherein the inter-master switching module interconnection is made through the interconnections member of the shelf.
- 24. (Original) The computer system of claim 20, wherein the two master switching are operable in master-slave relationship relative one another.
- 25. (Currently amended) The computer system of claim 1, wherein each switching module comprises at least one forwarding element for performing a forwarding operating operation and a respective controlling element for controlling the switching forwarding element.
- 26. (Original) The computer system of claim 25, wherein each switching module comprises at least one switch fabric chip and a controlling microprocessor, and wherein the functionality of each forwarding element is performed by a switch fabric chip and the functionality of the controlling element is performed by the same switch fabric chip and the controlling microprocessor in combination.
- 27. (Original) The computer system of claim 25, wherein each controlling element is aware of the topography of the stack.
- 28. (Original) The computer system of claim 27, wherein each controlling element is operable to control the operation of the forwarding element to cause a unicast data element to be forwarded by its respective forwarding element using a shortest transmission path to its target.
- 29. (Original) The computer system of claim 27, wherein each controlling element is operable to control the operation of the forwarding element to cause a multicast or broadcast data element to be forwarded once around the stack in a given direction.

- 30. (Original) The computer system of claim 25, wherein each switching module is content aware.
- 31. (Original) The computer system of claim 30, wherein the controlling element is operable to study a transmitted data element to determine a path to destination based on the content of that data element.

## 32. (Original) A computer system comprising:

a plurality of shelves, each shelf having carrier means for removably receiving a plurality of information processing means modules and a switching means module, and an interconnection means for providing connections between the information processing means modules and the switching means module;

wherein the shelves are logically connected into a plurality of stacks, the switching means modules of the respective shelves in each stack being interconnected in a logical stacking configuration;

the computer system further comprising a shelf having carrier means for removably receiving a master switching means module, wherein the master switching means module is connected into each stack as a common master switch for all of the stacks.

## 33-40. (Cancelled)

41. (New) The computer system of claim 2, wherein only a first shelf and a last shelf in each of the plurality of stacks is coupled to the master switching module.

## 42. (New) A computer system comprising:

a plurality of shelves, each shelf including a carrier configured to removably receive a plurality of information processing modules and two switching modules, and an interconnection member configured to provide connections between the information processing modules and the switching modules;

wherein the shelves are logically connected into a plurality of stacks, wherein the switching modules of the respective shelves in each stack being interconnected in two separate logical stacking configuration, wherein a first switching module of each shelf is connected into a separate logical stacking arrangement than a second switching module of that shelf; and

the computer system further comprising a master shelf including a carrier configured to removably receive two master switching modules, wherein each of the master switching modules is connected into each stack as a common master switch for all of the stacks, wherein a first master switching module is connected to a first switching module of a first shelf and to a first switching module of a last shelf in each of the stacks, and wherein a second master switching module is connected to a second switching module of a first shelf and to a second switching module of a last shelf in each of the stacks.